

ROBUST SUMMARY
ALKYL SULFIDE CATEGORY
CAS # 68515-88-8
HEALTH ELEMENTS: REPEATED DOSE TOXICITY

<u>Test Substance</u>	
CAS #	CAS# 68515-88-8
Chemical Name	Pentene, 2,4,4-trimethyl-, sulfurized
Remarks	97% purity This chemical is also referred to as trimethyl pentene derivative in the HERTG's Test Plan for Alkyl Sulfide Category. For more information on the chemical, see Section 2.0 "Chemical Description of Alkyl Sulfide Category" in HERTG's Test Plan for Alkyl Sulfide Category.
<u>Method</u>	
Method/Guideline followed	Consistent with OECD 410 and OPPTS 870.3200
Test Type	28-day dermal toxicity study in rats
GLP (Y/N)	Y
Year (Study Performed)	1988
Species	Rat
Strain	Sprague-Dawley CD, 21 days old at initiation of treatment
Route of administration	Test material applied topically to shaved, unabrased skin (semi-occluded dressing)
Duration of test	28 days
Doses/concentration levels	1000 mg/kg/day (limit study)
Sex	Males
Exposure period	6 hours/day, after which the test material was removed with mineral oil
Frequency of treatment	5 days/week, 4 weeks (total of 20 applications)
Control group and treatment	5 male rats received topical application of test material, 5 male rats served as controls by receiving topical application of mineral oil.
Post exposure observation period	
Statistical methods	Continuous data including body weight, body weight gain and food consumption was analyzed by analysis of variance.
Remarks field for test conditions	
<u>Results</u>	
Remarks	No NOAEL was assigned to this study. All animals survived throughout the study and physical examinations were generally unremarkable. No difference between the test material-treated animals and control animals was noted for the parameters of body weight, body weight gain or food consumption. Detail gross pathological examination of external and internal features of the animals revealed no remarkable findings with the exception of weak-moderate irritation responses at the site of test material application. These responses were characterized by erythema, eschar and flaking of

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	the skin that persisted over the majority of the 28-day treatment period.
<u>Conclusions</u>	No NOAEL was assigned to this study. All animals survived throughout the study and physical examinations were generally unremarkable.
<u>Data Quality</u>	Reliable without restriction (Klimisch Code)
<u>References</u>	This robust summary was prepared from an unpublished study by an individual member company of the HERTG (the underlying study contains confidential business information).
<u>Other</u>	Updated: 12-28-99